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(21) Application number: **04275056**(22) Date of filing: **18.09.92**(71) Applicant: **YOSHITOMI PHARMACEUT IND LTD**
 (72) Inventor: **KAWAKITA TAKESHI**  
**TAKADA DAISUKE**  
**IKEDA TAKASHI**  
**MORIMOTO MIE**
(54) **ANTIBACTERIAL AGENT**

(57) Abstract:

**PURPOSE:** To provide an antibacterial agent containing a specific benzimidazole compound known as an antiulcer agent as an active ingredient and having a selective excellent antibacterial activity against *Helicobacter pylori*.

**CONSTITUTION:** An antibacterial agent contains a compound of formula I [ $R^1$  is H, alkyl, alkoxy,  $CF_3$ , acyl, alkoxycarbonyl; (n) is 0, 1;  $R^2$ ,  $R^3$  are H, alkyl;  $R^4$  is alkyl, alkenyl, phenyl, benzyl, cycloalkyl;  $R^5$  is H, (halo)alkoxycarbonyl, alkenyloxycarbonyl, phenoxycarbonyl, etc.,] or its pharmaceutically acceptable salt. Examples of the compound of formula I include 2-[(4-butylthio-3-methyl-2-pyridyl)methylthio]-1H-benzimidazole. Examples of the pharmaceutically acceptable salt of the compound of formula I include an acid addition salt such as hydrochloride or sulfate and a salt of formula II ((t) is 1, 2, 4; A is Li, Na, Mg, Ca, etc.), preferably Na salt, Ca salt or Mg salt of formula II.

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